

CLAIMS:

Amend claims 1 through 38 as follows:

Claim 1 rewrite (amend) Claim 1 as follows:

1. A solid-chemical composition which provides [both] a sustained-release [source] of active oxygen and [a source of] complex inorganic phosphates, comprising:
 - a. A [first component being a] solid-chemical source of active oxygen from about 20% to 99% by weight percent of [the] said composition;
 - b. [A second component being a source of] complex inorganic phosphates from about 1% to 80% by weight percent of [the] said composition.

Surfactant properties

Claim 2 rewrite (amend) Claim 2 as follows:

2. The solid-chemical composition of Claim 1, whereby said solid-chemical source of active oxygen is one or more [further] selected from [one or more of] the group consisting of calcium peroxide and magnesium peroxide[and any combinations thereof].

Claim 3 rewrite (amend) Claim 3 as follows:

3. The solid-chemical composition of Claim 1, whereby said complex inorganic phosphates are [further] one or more selected from [one or more of] the group consisting of ringed metaphosphates and linear polyphosphates[and any combinations thereof].

Claim 4 rewrite (amend) Claim 4 as follows:

4. The solid-chemical composition of Claim 1, whereby said complex inorganic phosphates are [further] one or more selected from the group consisting of sodium hexametaphosphate, sodium trimetaphosphate, sodium tripolyphosphate, sodium-potassium tripolyphosphate, and tetrasodium polyphosphate[and any combinations thereof].

Claim 5 rewrite (amend) Claim 5 as follows:

5. The solid-chemical composition of Claim 1, further comprising a source of inorganic nitrogen from about 0.1% to 10% by weight percent of [the] said composition.

Claim 6, rewrite (amend) Claim 6 as follows:

6. The solid-chemical composition of Claim [5] 1, further comprising an ammonium-free [whereby said] source of inorganic nitrogen [is ammonium free and] being one or more selected from [one or more of] the group consisting of sodium nitrate, sodium-potassium nitrate, potassium nitrate, and other soluble salts of nitrate[and any combinations thereof], from about 0.1% to 10% by weight percent of said composition.

Claim 7, rewrite (amend) Claim 7 as follows:

7. The solid-chemical composition of Claim 1, further comprising a [source of] simple inorganic orthophosphate[s], from about 0.1% to 35% by weight percent of said composition.

Claim 8, rewrite (amend) Claim 8 as follows:

8. The solid-chemical composition of Claim [7] 1, further comprising a simple inorganic orthophosphate being one or more [whereby said simple inorganic orthophosphates are] selected from [one or more of] the group consisting of sodium phosphate, calcium phosphate, potassium phosphate, and sodium-potassium phosphate[, and any combinations thereof], from about 0.1% to 35% by weight percent of said composition.

Claim 9, rewrite (amend) Claim 9 as follows:

9. The solid-chemical composition of Claim 1, further comprising an [source of] organic disintegrant[s] from about 0.01% to 5% by weight percent of said composition.

Claim 10, rewrite (amend) Claim 10 as follows:

10. The solid-chemical composition of Claim [9] 1, further comprising an organic disintegrant being one or more [whereby said organic disintegrants are] selected from [one or more of] the group consisting of pre-gelled starch, powdered molasses, granulated sugar, sodium starch glycolate, crosscarmellose of sodium, and crospovidone[, and any combinations thereof], from about 0.01% to 5% by weight percent of said composition.

Claim 11, rewrite (amend) Claim 11 as follows:

11. The solid-chemical composition of Claim 1, [which] further comprising [includes] an [source of] inorganic disintegrant[s], from about 0.05% to 10% by weight percent of said composition.

Claim 12, rewrite (amend) Claim 12 as follows:

12. The solid-chemical composition of Claim [11]_1, further comprising an inorganic disintegrant being one or more [whereby said inorganic disintegrants are] selected from [one or more of] the group consisting of bentonite, montmorillonite, kaolinite, and other clay minerals[, and any combinations thereof], from about 0.05% to 10% by weight percent of said composition.

Claim 13 rewrite (amend) Claim 13 as follows:

13. The solid-chemical composition of Claim 1, [which] further comprising [includes] an [source of] inorganic [binders, fillers, and] buffer[s] from about 0.5% to 60% by weight percent of [the] said composition.

Claim 14 rewrite (amend) Claim 14 as follows:

14. The solid-chemical composition of Claim 1[3], further comprising an inorganic buffer being one or more [whereby said inorganic binders, fillers, and buffers are] selected from [one or more of] the group consisting of calcium carbonate, lime, limestone, siderite and ferrous carbonate, rhodochrosite and manganese carbonate, calcium phosphate, sodium bicarbonate, portland cement, metal oxides, metal hydroxides, and metal oxyhydroxides [and any combinations thereof], from about 0.5% to 60% by weight percent of said composition.

Claim 15 rewrite (amend) Claim 15 as follows:

15. The solid-chemical composition of Claim 1, [which] further comprising [includes] a [source of] metal catalyst[s] for chemical-oxidation reactions, from about 0.25% to 25% by weight percent of [the] said composition.

Claim 16 rewrite (amend) Claim 16 as follows:

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16. The solid-chemical composition of Claim [15] 1, further comprising a metal catalyst being one or more [whereby said metal catalysts are] selected from [one or more of] the group consisting of ferrous sulfate and other soluble salts of ferrous iron[, including ferrous sulfate; siderite and ferrous carbonate; and any combinations thereof], from about 0.25% to 25% by weight percent of said composition.

Claim 17 rewrite (amend) Claim 17 as follows:

17. The solid-chemical composition of Claim 1, [which] further comprising [includes] a [source of] lubricant[s and glidants for the preparation of the composition in the forms of tablets, granules, briquettes, pellets and like forms], from about 0.01% to 1.5% by weight percent of [the] said composition.

Claim 18 rewrite (amend) Claim 18 as follows:

18. The solid-chemical composition of Claim [17] 1, further comprising a [whereby said] lubricant[s and glidants are] being one or more selected from [one or more of] the group consisting of magnesium stearate, calcium stearate and other stearates, stearic acid, sodium stearyl fumarate, hydrogenated vegetable oil, silicone, talc, and corn starch[, and any combinations thereof], from about 0.01% to 1.5% by weight percent of said composition.

Claim 19 rewrite (amend) Claim 19 as follows:

19. The solid-chemical composition of Claim 1, [which] further comprising an [includes a source of dehydrated, dried and freeze-dried] inoculum for biological organisms being one or more[, microorganisms and fungi] selected from [one or more of] the group consisting of [inoculum for] aerobic bacteria[;], facultative bacteria[;], other bacteria capable of using oxygen as a terminal electron acceptor for any biogeochemical process[;], denitrifying bacteria[;], mycoplasmas[;], white-rot fungi,

brown-rot fungi and other multicellular fungi[;], and yeasts[; and any combinations thereof], from about 0.0001% to 0.5% by weight percent of [the] said composition.

Claim 20 rewrite (amend) Claim 20 as follows:

20. The solid-chemical composition of Claim [19] 1, further comprising an [whereby said] inoculum for biological organisms[; microorganisms and fungi are further] being one or more selected from [one or more of] the group consisting of yellow boy, Bacillus spp., Rhizobium spp., Bradyrhizobium spp., Fibrobacter spp., Clostridium spp. Pseudomonas spp., Geobacter spp., Arthrobacter spp., Nocardia spp., Aspergillus spp., Trichoderma spp., Candida spp., Yarrowia spp., Piptoporous spp., Serpula spp., Coriolus spp., Phanerochaete spp., Pleurotus spp., Sporotrichum spp., Bjerkandera spp., and Trametes spp., and any combinations thereof], from about 0.0001% to 0.5% by weight percent of said composition.

Claim 21 rewrite (amend) Claim 21 as follows:

21. A solid-chemical composition which provides [both] a sustained-release [source] of active oxygen and [a source of] complex inorganic phosphates, comprising:
- A solid-chemical source of active oxygen being one or more selected from [one or more of] the group consisting of calcium peroxide and magnesium peroxide, [and any combinations thereof,] from about 57% to 95% by weight percent of [the] said composition;
 - Sodium hexametaphosphate₁ being a complex inorganic phosphate₁ from about 0.25% to 25% by weight percent of [the] said composition;
 - Sodium trimetaphosphate₁ being a complex inorganic phosphate₁ from about 0.25% to 25% by weight percent of [the] said composition;
 - Pre-gelled starch₁ being an organic disintegrant₁ from about 0.1% to 4% by weight percent of [the] said composition;

- e. Magnesium stearate, being a lubricant[and glidant], from about 0.05% to 1% by weight percent of [the] said composition.

Claim 22 rewrite (amend) Claim 22 as follows:

22. The solid-chemical composition of Claim 21, further comprising another [source of] complex inorganic phosphate[s] being one or more selected from the [one or more of the] group consisting of sodium tripolyphosphate, sodium-potassium tripolyphosphate, and tetrasodium polyphosphate[, and any combinations thereof], from about 0.1% to 15% by weight percent of [the] said composition.

Claim 23 rewrite (amend) Claim 23 as follows:

23. The solid-chemical composition of Claim 21, further comprising a source of inorganic nitrogen from about 0.1% to 5% by weight percent of [the] said composition.

Claim 24 rewrite (amend) Claim 24 as follows:

24. The solid-chemical composition of Claim [23] 21, further comprising an ammonium-free [whereby said] source of inorganic nitrogen [is ammonium free and] being one or more selected from [one or more of] the group consisting of sodium nitrate, sodium-potassium nitrate, potassium nitrate, and other soluble salts of nitrate[and any combinations thereof], from about 0.1% to 5% by weight percent of said composition.

Claim 25 rewrite (amend) Claim 25 as follows:

25. The solid-chemical composition of Claim 21, further comprising a [source of] simple inorganic orthophosphate[s], from about 0.1% to 20% by weight percent of said composition.

Claim 26 rewrite (amend) Claim 26 as follows:

26. The solid-chemical composition of Claim [25] 21, further comprising a [whereby said] simple inorganic orthophosphate[s] being one or more [are] selected from [one or more of] the group consisting of sodium phosphate, calcium phosphate, potassium phosphate, and sodium-potassium phosphate[, and any combinations thereof], from about 0.1% to 20% by weight percent of said composition.

Claim 27 rewrite (amend) Claim 27 as follows:

27. The solid-chemical composition of Claim 21, further comprising another [source of] organic disintegrant[s,] being one or more selected from [one or more of] the group consisting of powdered molasses, granulated sugar, sodium starch glycolate, crosscarmellose of sodium, and croscopovidone, [and any combinations thereof] from about 0.01% to 1% by weight percent of said composition.

Claim 28 rewrite (amend) Claim 28 as follows:

28. The solid-chemical composition of Claim 21, [which] further comprising an [includes a source of] inorganic disintegrant[s], from about 0.05% to 10% by weight percent of said composition.

Claim 29 rewrite (amend) Claim 29 as follows:

29. The solid-chemical composition of Claim 28, further comprising an [whereby said] inorganic disintegrant[s are] being one or more selected from [one or more of] the group consisting of bentonite, montmorillonite, kaolinite, and other clay minerals[, and any combinations thereof], from about 0.05% to 10% by weight percent of said composition.

Claim 30 rewrite (amend) Claim 30 as follows:

30. The solid-chemical composition of Claim [1] 21, [which] further comprising an [includes a source of] inorganic [binders, fillers, and] buffer[s], from about 0.5% to 30% by weight percent of [the] said composition.

Claim 31 rewrite (amend) Claim 31 as follows:

31. The solid-chemical composition of Claim [30] 21, further comprising an inorganic [whereby said inorganic binders, fillers, and] buffer[s are] being one or more selected from [one or more of] the group consisting of calcium carbonate, lime, limestone, siderite and ferrous carbonate, rhodochrosite and manganese carbonate, calcium phosphate, sodium bicarbonate, portland cement, metal oxides, metal hydroxides, and metal oxyhydroxides [and any combinations thereof], from about 0.5% to 30% by weight percent of said composition.

Claim 32 rewrite (amend) Claim 32 as follows:

32. The solid-chemical composition of Claim 21, [which] further comprising [includes] a [source of] metal catalyst[s] for chemical-oxidation reactions, from about 0.25% to 15% by weight percent of [the] said composition.

Claim 33 rewrite (amend) Claim 33 as follows:

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33. The solid-chemical composition of Claim [32] 21, further comprising a [whereby said] metal catalyst[s are] being one or more selected from [one or more of] the group consisting of ferrous sulfate and other soluble salts of ferrous iron[, including ferrous sulfate; siderite and ferrous carbonate; and any combinations thereof], from about 0.25% to 15% by weight percent of said composition.

Claim 34 rewrite (amend) Claim 34 as follows:

34. The solid-chemical composition of Claim 21, [which] further comprising [includes] another [source of] lubricant[s and glidants] being one or more selected from [one or more of] the group consisting of calcium stearate and other stearates, stearic acid, sodium stearyl fumarate, hydrogenated vegetable oil, silicone, talc, and corn starch, [and any combinations thereof,] from about 0.01% to 1% by weight percent of [the] said composition.

Claim 35 rewrite (amend) Claim 35 as follows:

35. The solid-chemical composition of Claim 21, [which] further comprising [includes] an [source of dehydrated, dried and freeze-dried] inoculum for biological organisms[, microorganisms and fungi] being one or more selected from [one or more of] the group consisting of [inoculum for] aerobic bacteria[;], facultative bacteria[;], other bacteria capable of using oxygen as a terminal electron acceptor for any biogeochemical process[;], denitrifying bacteria[;], mycoplasmas[;], white-rot fungi, brown-rot fungi and other multicellular fungi[;], and yeasts[; and any combinations thereof], from about 0.0001% to 0.5% by weight percent of [the] said composition.

Claim 36 rewrite (amend) Claim 36 as follows:

36. The solid-chemical composition of Claim [35] 21, further comprising an [whereby said] inoculum for biological organisms[, microorganisms and fungi are further] being one or more selected from [one or more of] the group consisting of yellow boy, Bacillus spp., Rhizobium spp., Bradyrhizobium spp., Fibrobacter spp., Clostridium spp. Pseudomonas spp., Geobacter spp., Arthrobacter spp., Nocardia spp., Aspergillus spp., Trichoderma spp., Candida spp., Yarrowia spp., Piptoporous spp., Serpula spp., Coriolus spp., Phanerochaete spp., Pleurotus spp., Sporotrichum spp., Bjerkandera spp., and Trametes spp.[, and any combinations thereof], from about 0.0001% to 0.5% by weight percent of said composition.
37. The solid-chemical composition of Claim[s 1 through 20] 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20, whereby said composition is prepared in the form of granules, briquettes, tablets, capsules, pellets, and any combinations thereof.
38. The solid-chemical composition of Claim[s 21 through 36] 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, or 36 whereby said composition is prepared in the form of granules, briquettes, tablets, capsules, pellets, and any combinations thereof.